



## What are Potential Energy Stores?

You will consider what potential energy stores are, watch a video about how a windup radio works and why it is useful in remote parts of the world, and then create a mind map of activities that require potential energy stores.

### You will use:

Digital

- **Windup Radio video**  
<https://www.twigsciencetools.com/video/windup-radio-VVNFTIRXRTIwMDUy>

You will understand that potential energy can be stored and then used later in a number of different ways.

1. Think about the following questions. Make notes below.

- What is an energy store?
- How can potential energy be stored?
- Why is it useful to store potential energy?
- What are some examples of potential energy stores?

2. Play the **Windup Radio video**. Answer the following questions in complete sentences.





- What is it in batteries that produces the electrical energy needed to power a machine?

- What happens to batteries when the chemicals are used up?

- Why is this a problem for people in remote parts of the world?

- Who invented the world's first windup radio?

- What does a windup radio use instead of a battery?

- How does this mechanism transfer energy?



- What energy transfers happen to make the windup radio work?